1	Title	Satellite Power System	
2	Lecturer, Units	Mengu Cho, Mitsuru Imaizumi, Hitoshi Naito, Kazunori Shimazaki, Hiroaki Kusawake, Yukishige Nozaki	2
3	Purpose	Satellite power system is an essential subsystem that guarantees the success of satellite mission. Without power, a satellite is useless. This course will give introduction to satellite power system, from its overview to description of each element and future topics.	
4	Lecture schedule	1. Power system options 2. Photovoltaic-Batter System 3. Power System Design 4. Solar cell principle 5. Space Solar cell state-of-art 6. Environmental Effect 7. Solar Array System 8. Battery 9. Space Battery state-of-art 10. Power Control Algorithm 11. Power Control Hardware 12. Reliability 13. High Voltage Power System 14. Micro/Nano Satellite Power System 15. Space Solar Power System	
5	Evaluation	Reports and mini-test.	
6	Note	This lecture is provided in English. It is desirable for students to take space system related subjects, such as Space Systems Engineering and Introduction to Satellite Engineering.	
7	Textbook Reference	Reference book: Spacecraft Power Systems by Mukun R. Patel, CRC Press, 2005	